

1/9

FIG. 1

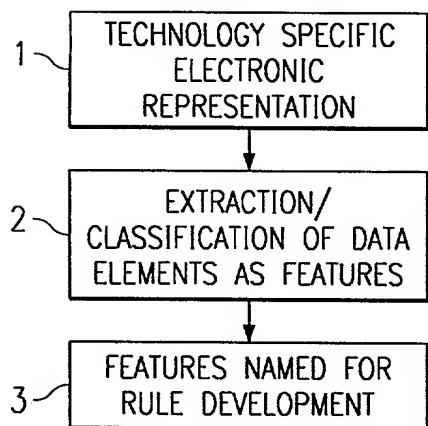


FIG. 2

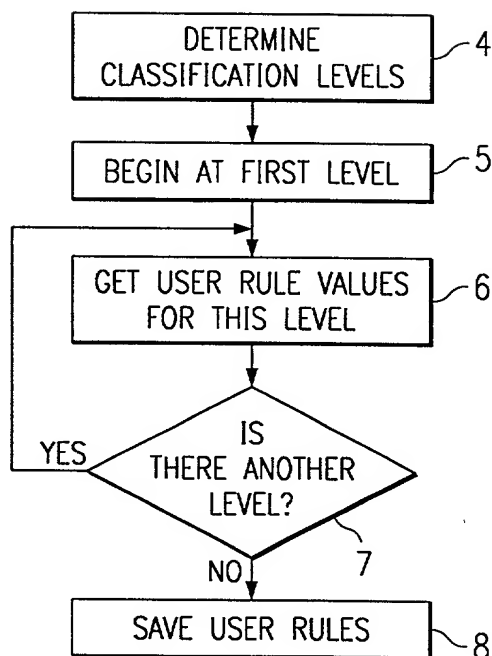


FIG. 3

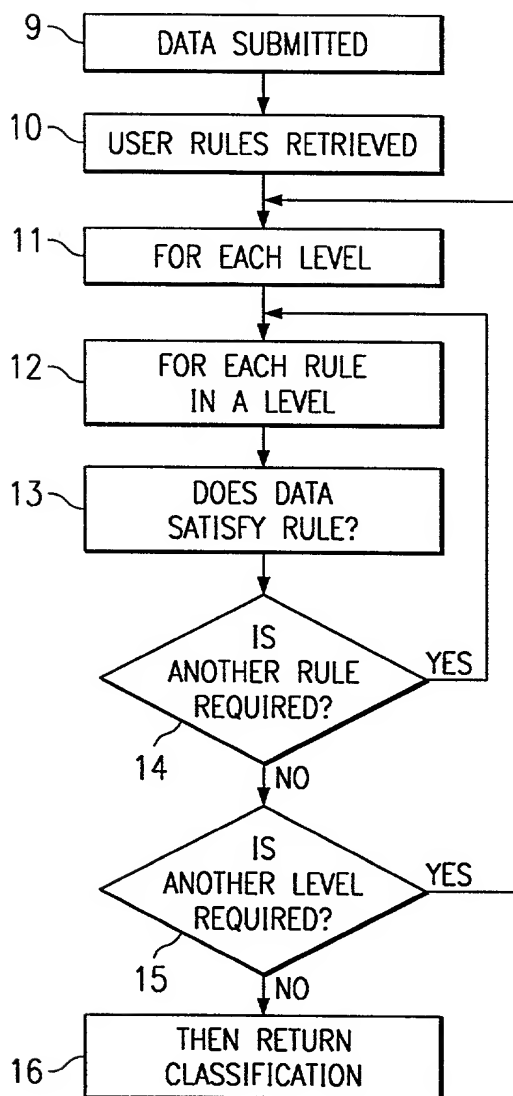


FIG. 4

FIRST ELEMENT:
VALUES SAVED BY ILO ARE READ
FROM ILO GENERATED
DATA FILE AND NAMED
SPECIFIC VALUES ARE NAMED
FOR EACH LEVEL, AND
EACH RULE IN A LEVEL

SECOND ELEMENT:
USER SELECTS THE VALUES, RANGES
AND FEATURES TO CONSTRUCT FOR
EACH LEVEL TO ESTABLISH EACH RULE

THIRD ELEMENT:
DATA ARE RETRIEVED FROM ILO FILE
MACRO RETRIEVES THE USER
RULES AND APPLIES THEM TO
DATA FOR CLASSIFICATION

2/9

FIG. 5

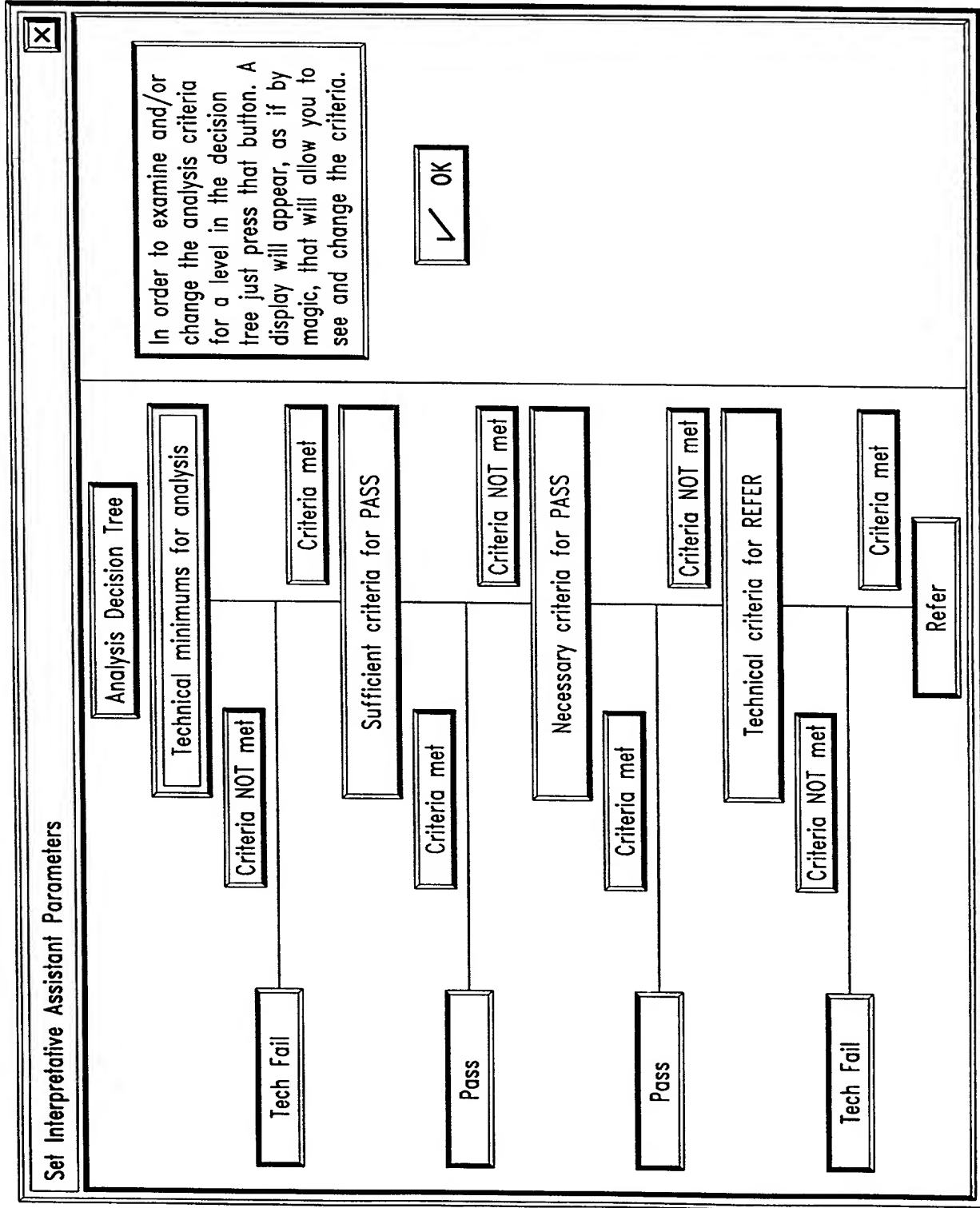


FIG. 6

3/9

The dialog box titled "Technical minimums for analysis" contains a table of criteria and values. The criteria are listed on the left, and the values are on the right. Each criterion has a checkbox and a value field with minus and plus buttons. The criteria are: Minimum number of quiet sweeps (checked, 60), Maximum number of quiet sweeps (unchecked, 9999), Minimum percent quiet sweeps (unchecked, 0), Maximum percent quiet sweeps (unchecked, 100), Minimum trough stimulus dB (unchecked, 0), Maximum peak stimulus dB (checked, 85), Minimum trough percent stimulus stability (unchecked, 0), and Maximum peak stimulus stability (unchecked, 100). At the bottom, there is a field for "Minimum number of above criterion required to classify as tech fail" with a value of 1. The dialog box has OK and Cancel buttons.

Criterion	Value
<input checked="" type="checkbox"/> Minimum number of quiet sweeps	60
<input type="checkbox"/> Maximum number of quiet sweeps	9999
<input type="checkbox"/> Minimum percent quiet sweeps	0
<input type="checkbox"/> Maximum percent quiet sweeps	100
<input type="checkbox"/> Minimum trough stimulus dB	0
<input checked="" type="checkbox"/> Maximum peak stimulus dB	85
<input type="checkbox"/> Minimum trough percent stimulus stability	0
<input type="checkbox"/> Maximum peak stimulus stability	100

Minimum number of above criterion required to classify as tech fail: 1

FIG. 7

The dialog box titled "Set SUFFICIENT criteria for pass" contains a section titled "Sufficient Criteria for QUICK-SCREEN Mode". It lists seven criteria with checkboxes and value fields. The criteria are: Whole response dB >= (unchecked, 100), Whole wave correlation >= (unchecked, 100), Net response 800 Hz >= (checked, 100), Net response 1600 Hz >= (unchecked, 100), Net response 2400 Hz >= (checked, 100), Net response 3200 Hz >= (unchecked, 100), and Net response 4000 Hz >= (checked, 100). The dialog box has OK and Cancel buttons.

Criterion	Value
<input type="checkbox"/> Whole response dB >=	100
<input type="checkbox"/> Whole wave correlation >=	100
<input checked="" type="checkbox"/> Net response 800 Hz >=	100
<input type="checkbox"/> Net response 1600 Hz >=	100
<input checked="" type="checkbox"/> Net response 2400 Hz >=	100
<input type="checkbox"/> Net response 3200 Hz >=	100
<input checked="" type="checkbox"/> Net response 4000 Hz >=	100

4/9

Set NECESSARY criteria for pass

QUICK-SCREEN Mode Absolutely required

<input type="checkbox"/>	Whole response dB >=	-	100	+
<input checked="" type="checkbox"/>	Whole wave correlation >=	-	50	+
<input type="checkbox"/>	Net response 800 Hz >=	-	100	+
<input type="checkbox"/>	Net response 1600 Hz >=	-	100	+
<input type="checkbox"/>	Net response 2400 Hz >=	-	100	+
<input type="checkbox"/>	Net response 3200 Hz >=	-	100	+
<input checked="" type="checkbox"/>	Net response 4000 Hz >=	-	6	+

OK Cancel

FIG. 8

FIG. 9

Set NECESSARY criteria for pass

QUICK-SCREEN Mode Contributing criteria

<input type="checkbox"/>	Whole response dB >=	-	100	+
<input type="checkbox"/>	Whole wave correlation >=	-	100	+
<input type="checkbox"/>	Net response 800 Hz >=	-	100	+
<input checked="" type="checkbox"/>	Net response 1600 Hz >=	-	3	+
<input checked="" type="checkbox"/>	Net response 2400 Hz >=	-	3	+
<input checked="" type="checkbox"/>	Net response 3200 Hz >=	-	6	+
<input type="checkbox"/>	Net response 4000 Hz >=	-	100	+
Number of criteria required		-	2	+

OK Cancel

FIG. 10

5/9

Criterion	Value
<input type="checkbox"/> Minimum number of quiet sweeps	0
<input type="checkbox"/> Maximum number of quiet sweeps	9999
<input type="checkbox"/> Minimum percent quiet sweeps	0
<input type="checkbox"/> Maximum percent quiet sweeps	100
<input checked="" type="checkbox"/> Minimum trough stimulus dB	70
<input type="checkbox"/> Maximum peak stimulus dB	100
<input checked="" type="checkbox"/> Minimum trough percent stimulus stability	60
<input type="checkbox"/> Maximum peak stimulus stability	100

Minimum number of above criterion required to classify as tech fail: 1

OK Cancel

FIG. 11B

```

if((earresult.pass==EAR_PASSED)&&(eardata.wholecorrel<
ILO_MINIMUM_WHOLEWAVE_CORRELATION)){earresult.pass =
EAR_REFERRED;strncpy(earresult.failreason,
ILO_INSUFF_WHOLEWAVE_CORREL_STRING,
PAT_RESULT_REASON_FIELD_LENGTH);}
if((earresult.pass==EAR_PASSED)&&(earcalcs.maxstimdb>
ILO_MAXIMUM_STIM_DB)){earresult.pass=TECH_FAIL;strncpy(earresult.failreason,
ILO_MAX_STIM_TOO_HIGH_STRING, PAT_RESULT_REASON_FIELD_LENGTH);}
if(earresult.pass==EAR_REFERRED)
{
if(earcalcs.minstimdb<ILO_MINIMUM_STIM_DB){earresult.pass =
TECH_FAIL;strncpy(earresult.failreason, ILO_MIN_STIM_TOO_LOW_STRING,
PAT_RESULT_REASON_FIELD_LENGTH);}
if(earcalcs.minstimstab<ILO_MINIMUM_STIM_STABILITY){earresult.pass =
TECH_FAIL;strncpy(earresult.failreason, ILO_STIM_STAB_TOO_LOW_STRING,
PAT_RESULT_REASON_FIELD_LENGTH);}
}
if(eardata.nquiet<ILO_MINIMUM_NUM_QUIET){earresult.pass =
TECH_FAIL;strncpy(earresult.failreason, ILO_INSUFF_NUM_QUIET_STRING,
PAT_RESULT_REASON_FIELD_LENGTH);}
return earresult.pass;
}

```

FIG. 11A

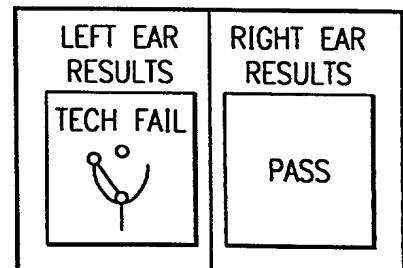
6/9

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@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
int      EarToae::Newanalysis()
{
    earresult.pass=EAR_REferred;
    int      bandcount=0;
    if(eardata.clock_us==ILO_CLOCK_FOR_STANDARD_COLLECTION)//Regular
ILO with bands of 1,2,3,4,5 k
    {
//          if(earcalcs.fft1knet[0]>2.5){bandcount++;} //This band not used since LF
filter is generally used
        if(earcalcs.fft1knet[1]>ILO_REGULAR_BAND_1_CUTOFF){bandcount++;}
        if(earcalcs.fft1knet[2]>ILO_REGULAR_BAND_2_CUTOFF){bandcount++;}
        if(earcalcs.fft1knet[4]>ILO_REGULAR_BAND_4_CUTOFF){bandcount++;}
        if(earcalcs.fft1knet[3]<ILO_REGULAR_BAND_3_CUTOFF){bandcount = 0;}
        if(bandcount>=ILO_MINIMUM_BANDCOUNT){earresult.pass =
EAR_PASSED;strncpy(earresult.failreason, NULL_STR,
PAT_RESULT_REASON_FIELD_LENGTH);}
        else{strncpy(earresult.failreason, ILO_FAIL_NET_POWER_STRING,
PAT_RESULT_REASON_FIELD_LENGTH);}
    }
    else if (eardata.clock_us==ILO_CLOCK_FOR_QUICK_SCREEN) // which means
QuickScreen w/ bands of 0.8, 1.2, 2.4, 3.2, 4.0 k
    {
//          if(earcalcs.fft1knet[0]>2.5){bandcount++;} //This band not used since LF
filter is generally used
        if(earcalcs.fft1knet[1]>ILO_QUICK_BAND_1_CUTOFF){bandcount++;}
        if(earcalcs.fft1knet[2]>ILO_QUICK_BAND_2_CUTOFF){bandcount++;}
        if(earcalcs.fft1knet[3]>ILO_QUICK_BAND_3_CUTOFF){bandcount++;}
        if(earcalcs.fft1knet[4]<ILO_QUICK_BAND_4_CUTOFF){bandcount = 0;}
        if(bandcount>=ILO_MINIMUM_BANDCOUNT){earresult.pass =
EAR_PASSED;strncpy(earresult.failreason,NULL_STR,
PAT_RESULT_REASON_FIELD_LENGTH);}
        else{strncpy(earresult.failreason, ILO_FAIL_NET_POWER_STRING,
PAT_RESULT_REASON_FIELD_LENGTH);}
    }
    else //I don't know what is going on
    {
        earresult.pass=TECH_FAIL;
        strncpy(earresult.failreason,
ILO_UNKNOWN_COLLECTION_PARAM_STRING,
PAT_RESULT_REASON_FIELD_LENGTH);
    }
}

```

FIG. 12



7/9

FIG. 13

Robert Smith, M.D.
(ADDRESS)

Date of Report: March 17, 1997

Patient:

Date of Birth: March 14, 1997

Case Number:

Mother:

Best Result to Date Right Ear: REFER

Best Result to Date Left Ear: REFER

Dear Dr. Smith,

This child's hearing has been screened using transient evoked otoacoustic emissions or screening auditory brainstem responses. The purpose of the Hearing Screening Program is to facilitate early detection of hearing loss that will be detrimental to the normal development of speech and language.

The infant has not passed the hearing screening in either ear.

This is a hearing screen and these results do not mean that the infant has a hearing loss; however, we advise further evaluation before three months of age by an audiologist experienced with auditory brainstem responses and otoacoustic emissions. Normal hearing in at least one ear is critical for speech and language acquisition. Thus, follow-up is essential to determine if this finding is transient or if there is a persistent peripheral hearing loss. Effective early intervention can facilitate language development. This letter supercedes any prior reports. If you have additional questions, please do not hesitate to contact us.

Respectfully,

Richard Jones, Ph.D. CCC/A

20250707 10:40:00

8/9

FIG. 14

Robert Smith, M.D.
(ADDRESS)

Date of Report: March 19, 1997

Patient:

Date of Birth: March 18, 1997

Case Number:

Mother:

Best Result to Date Right Ear: PASS

Best Result to Date Left Ear: PASS

Dear Dr. Smith,

This child's hearing has been screened using transient evoked otoacoustic emissions and/or screening auditory brainstem responses. The purpose of the Hearing Screening Program is to facilitate early detection of hearing loss that will be detrimental to the normal development of speech and language.

Screening to date indicates essentially normal peripheral auditory function in both ears. No reevaluation is necessary.

Hearing loss can develop postnatally and these results should not preclude future evaluation if age-appropriate language skills do not develop or if other developmental features, intervening medical events, or parental concern should dictate. Conditions such as congenital infection, or a family history of hearing loss place a child at risk for progressive loss and follow-up evaluations are advised by the Joint Committee on Infant Hearing. This letter supercedes any prior reports. If you have questions concerning the evaluation, please do not hesitate to contact us.

Respectfully,

Richard Jones, Ph.D. CCC/A

2025 RELEASE UNDER E.O. 14176

9/9

FIG. 15

Robert Smith, M.D.
(ADDRESS)

Date of Report: February 28, 1997

Patient:

Date of Birth: February 12, 1997

Case Number:

Mother:

Best Result to Date Right Ear: PASS

Best Result to Date Left Ear: REFER

Dear Dr. Smith,

This child's hearing has been screened using transient evoked otoacoustic emissions and/or screening auditory brainstem responses. The purpose of the Hearing Screening Program is to facilitate early detection of hearing loss that will be detrimental to the normal development of speech and language.

Screening to date shows essentially normal peripheral auditory function for the right ear. We were unable to obtain an acceptable response for the left ear.

This is a screening test and a unilateral refer does not mean that the infant will have a hearing loss in the left ear. Circumstances including transient middle ear fluid and the test technique itself can produce this result. For immediate confirmation of hearing in the left ear, the infant can be rescreened using auditory brainstem responses or otoacoustic emissions before three months of age. Normal hearing in one ear should allow early speech and language acquisition; however, if developmental features, intervening medical events such as chronic or recurrent otitis media, or parental concern for hearing are present, further evaluation by an audiologist experienced with auditory brainstem responses and otoacoustic emissions is indicated. This letter supercedes any prior reports. If you have additional questions, please do not hesitate to contact us.

Respectfully,

Richard Jones, Ph.D. CCC/A

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